DEUTZ

Workshop Manual

D 2008/2009

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ID no.	Name	Screw type	Notes / Remarks	Series		Pre-clamping value	Post-clamping value
A04 001	Cam shaft toothed gear on camshaft	M12 x 1.75		D/TD 2008/2009		81 Nm	
A04 004	Fuel injector toothed gear on fuel injector pump	M14 x 1.5		D/TD 2008/2009		10 Nm	81 Nm
A04 005	Thrust washer camshaft on crankcase	M8 x 1.25	Torx screw	D/TD 2008/2009		21 Nm	
A04 011	Idler gear on crankcase	M12 x 1.75		D/TD 2008/2009		81 Nm	
A06 001	Exhaust manifold on cylinder head	M8 x 1.25		D/TD 2008/2009		27 Nm	
A06 030	Intake manifold on cylinder head			D/TD 2008/2009		27 Nm	
A07 001	Clamping shoe fuel injector on cylinder head	M8 x 1.25		D/TD 2008/2009		27 Nm	
A07 003	Union nuts for high pressure pipes	M12 x 1.5		D/TD 2008/2009		28 Nm	
A07 006	Pipe clamp for high pressure pipes	M6 x 1.0		D/TD 2008/2009		9 Nm	
A07 013	Blocking screw on fuel injector pump			D/TD 2008/2009		10 Nm	
A07 019	Fule line on fuel supply pump			D/TD 2008/2009		15 Nm	
A07 024	Fuel supply pump on crankcase	M8 x 1.25		D/TD 2008/2009		27 Nm	
A07 031	Fuel injector pump on crankcase	M8 x 1.25		D/TD 2008/2009		21 Nm	
A07 084	Fuel lines on fuel filter console	M10 x 1.5		D/TD 2008/2009		21 Nm	

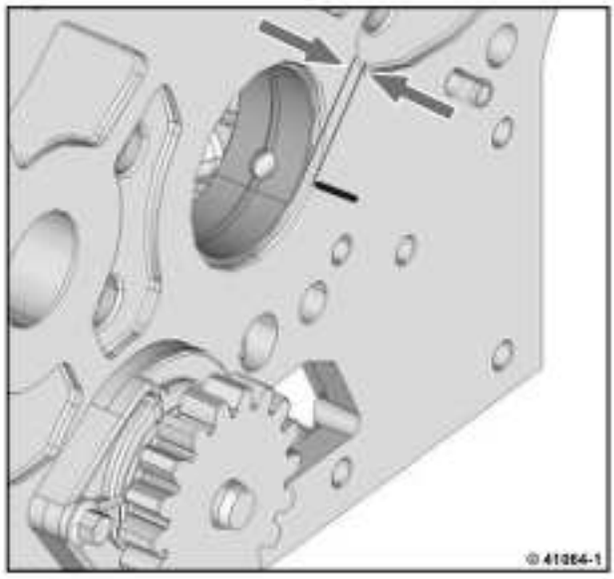
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- Dismantle assembly tool.
- Remove assembly tool.
- Check that the lubricating oil bore is in line.

If the lubricating oil bore is not in line, the bearing bush must be removed and re-installed.

- Check installation depth of the bearing bush with depth measuring appliance.

ca. 3 mm



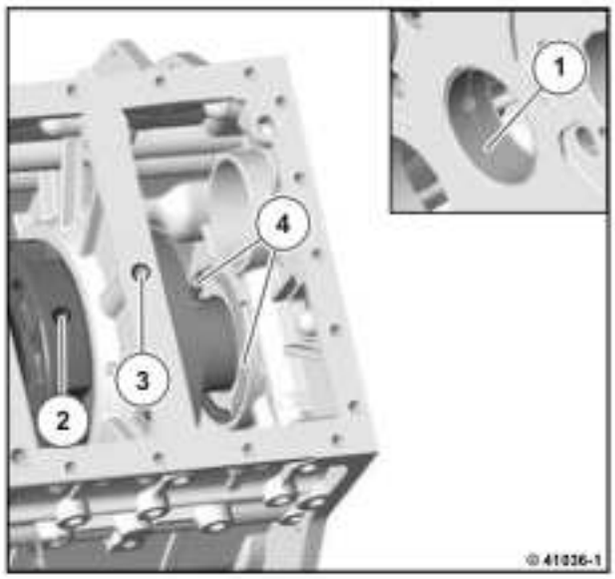
Installing the crankshaft

- Lightly oil bearing bush (1) with engine oil.
- Push crankshaft into crankcase.

Align screw thread (2) and through hole (3).

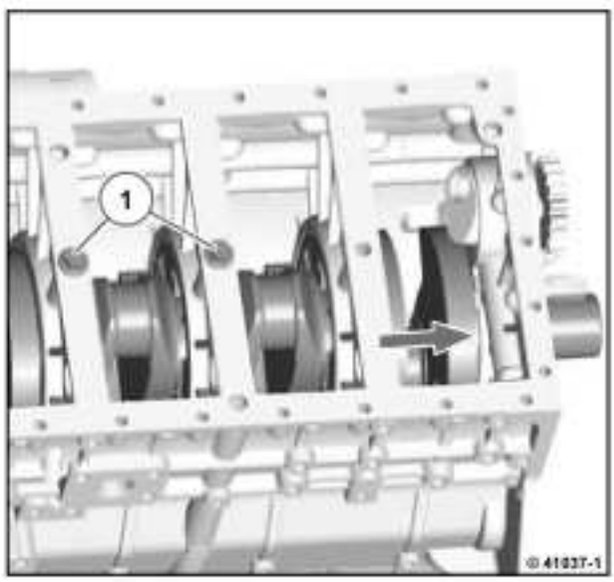
- Insert thrust washers (4) at the rear with grease.

Lubricating oil grooves face the crankshaft.



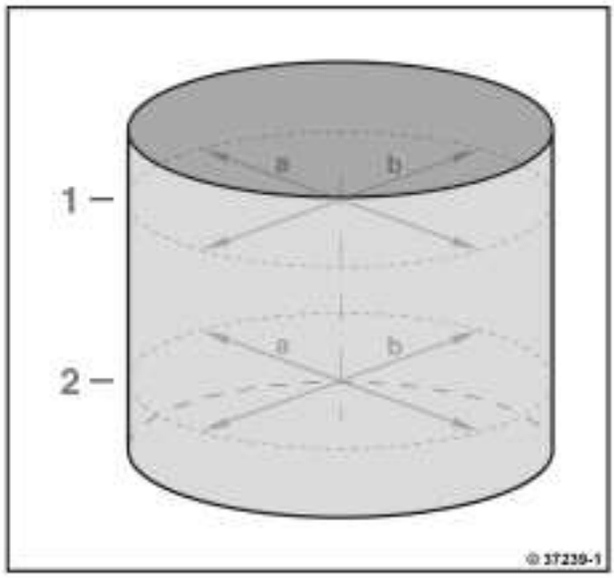
- Push in the crankshaft in the direction of the arrow to the stop.
- Tighten locating screws (1).
- Install oil suction pipe.

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Diagram for measuring the piston bolt bore at the points "a" and "b" in the levels "1" and "2".



- Insert internal measuring device in the piston bolt bore.
- Balance the internal measuring device at the given measuring points and read off the measured value at the reversal point of the pointer.

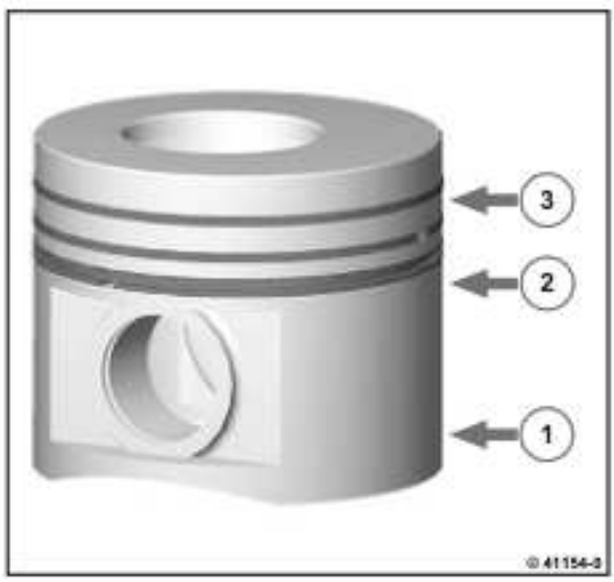
See schematic diagram for measuring points.

P02 78



Checking the piston diameter

Diagram for measuring the piston diameter at the measuring points "1, 2 and 3", transverse to the piston bolt bore.



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